

**This Page Is Inserted by IFW Operations
and is not a part of the Official Record**

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- **BLACK BORDERS**
- **TEXT CUT OFF AT TOP, BOTTOM OR SIDES**
- **FADED TEXT**
- **ILLEGIBLE TEXT**
- **SKEWED/SLANTED IMAGES**
- **COLORED PHOTOS**
- **BLACK OR VERY BLACK AND WHITE DARK PHOTOS**
- **GRAY SCALE DOCUMENTS**

IMAGES ARE BEST AVAILABLE COPY.

**As rescanning documents *will not* correct images,
please do not report the images to the
Image Problem Mailbox.**



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF:

Chun-Hsiang Chiang

SERIAL NO.: 09/960,172

EXAMINER: Edwin A. Leon

FILED: September 21, 2001

ART UNIT: 2833

FOR: WIRE MANAGEMENT MEMBER AND ELECTRIC CABLE CONNECTOR
WITH WIRE MANAGEMENT MEMBER

ATTORNEY DOCKET NO.: A1-082 US

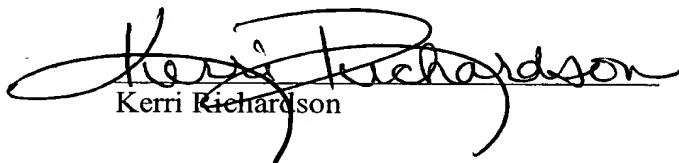
APPEAL BRIEF FOR APPLICANTS

Mail Stop Appeal Briefs – Patents
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

CERTIFICATE OF MAILING

I hereby certify that this correspondence along with any documents referred to as being attached, is being deposited with the United States Postal Service on the date shown below as first class mail, postage prepaid, in an envelope addressed to: Mail Stop Appeal Briefs – Patents, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Date: 9/11/03


Kerri Richardson

09/16/2003 DTESSEN1 00000105 501873 09960172.

01 FC:1402

320.00 DA

TECHNOLOGY CENTER 2800

SEP 23 2003

RECEIVED



**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
BEFORE THE BOARD OF PATENT APPEALS AND INTERFERENCES**

Applicants: Chun-Hsiang Chiang

Application: WIRE MANAGEMENT MEMBER AND ELECTRIC CABLE
CONNECTOR WITH WIRE MANAGEMENT MEMBER

Serial No.: 09/960,172

Filing Date: September 21, 2001

Art Unit: 2833

Examiner: Edwin A. Leon

Case: A1-082 US

RECEIVED
SEP 23 2003
TECHNOLOGY CENTER 2800

APPEAL BRIEF FOR APPLICANTS

This is an appeal from a final rejection of claims 1-15 and 17-22 that are pending in the present application. The final rejection was made in an Official Action issued in connection with the present application on June 26, 2003, from which a Notice of Appeal was mailed on July 10, 2003 and was received by the Patent Office on July 14, 2003. In accordance with 37 C.F.R. § 1.192(c)(9), the claims pending in the present application and involved in this Appeal are set forth in the attached Appendix A.

I. REAL PARTY IN INTEREST

The real party in interest is Molex Incorporated, having a place of business at 2222 Wellington Court, Lisle, Illinois 60532. Molex Incorporated is the real party in interest by virtue of an Assignment executed by the applicant on September 1, 2001 and recorded in connection with the present application in the United States Patent and Trademark Office on September 21, 2001 on Patent Reel No. 012206, Frame No. 0635.

II. RELATED APPEALS AND INTERFERENCES

Applicant and Molex Incorporated, the assignee of the present application, is

not aware of any other appeals or interferences which will directly affect or be directly affected by or have a bearing on the Board's decision in this appeal of the present application.

III. STATUS OF THE CLAIMS

The status of the claims in the present application is as follows:

1. Total claims: 1-23.
2. Claims canceled: 16.
3. Claims withdrawn from consideration but not canceled: None.
4. Claims pending: 1-15 and 17-23.
5. Claims allowed: 23.
6. Claims objected to: None.
7. Claims rejected: 1-15 and 17-22.
8. Claims appealed: 1-15 and 17-22.

IV. STATUS OF AMENDMENTS

The applicant did not file an Amendment Under 37 C.F.R. § 1.116 in response to the June 26, 2003 Official Action finally rejecting claims 1-15 and 17-22, but did file remarks with the U.S.P.T.O.

V. SUMMARY OF THE INVENTION

A. Background

Electric cable connectors generally comprise a rectangular, electrically insulative connector housing. The connector housing includes a plurality of terminals. The terminals each have a tail extending out of one end of the connector housing and suspending in the open air for soldering to respective wires of an electric cable. Because the tail of each of the terminals is respectively suspended in open air, it is difficult to solder the wires of the electric cable to the tail of each of the terminals, and one wire of the electric cable may be soldered to two or more terminals accidentally.

2. The Invention Of The Present Application:

The present invention provides for an electric cable connector. Referring to Figures 1 through 3, an electric cable connector in accordance with the present invention is generally comprised of a connector **1**, a cable **2**, and a wire management member **3**. The connector **1** comprises an electrically insulative housing **10** having a plurality of outer walls, terminal passageways **12** within the housing and a plurality of terminals **11** respectively inserted into the terminal passageways **12**. The electrically insulative housing **10** includes a plurality of locating cavities **14**, the purpose of which will be explained later. The tail **110** of each of the terminals **11** respectively extends out of one of the outer walls of the housing **10** for soldering to the cable **2**. The cable **2** comprises an electrically insulative jacket **20** and a plurality of wires **21** extended out of the jacket **20**. Each wire **21** includes a metal conductor **210** soldered to the tail **110** of each of its corresponding terminal **11**.

A wire management member **3** for use with the housing **10** comprises a body portion having a plurality of terminal grooves **30**, a plurality of wire grooves **31**, and one or more positioning rods **32** extending from an outer surface of the wire management member. In the embodiment shown in Figures 1-3, the positioning rods **32** extend from the front face of the wire management member **3** in a direction generally parallel to the terminal grooves **30**. The positioning rods **32** are respectively received within respective locating cavities **14** of the housing **10** of the connector **1**, thereby allowing the wire management member to be properly aligned with the body **10**, and positively secured thereto. Although terminal passageway **12** and locating cavity **14** are shown in Figure 1 to be joined, terminal passageway **12** and locating cavity **14** can be a separate from each other.

The terminal grooves **30** are adapted to receive the tail **110** of each of the terminals **11**. Ribs **33**, which may be integrally formed with the wire management member **3**,

are located between adjacent terminal grooves 30. The ribs 33 are higher than the elevation of the tail 110 of each of the terminals 11 received within the terminal grooves 30, so that the ribs 33 prevent solder paste from migrating to neighboring terminal grooves 30. One end of each of the terminal grooves 30 is respectively connected to the wire grooves 31. The wire grooves 31 in the embodiment shown have a cross section extending more than 180° for positively positioning and retaining the wires 21 of the cable 2 thereon. Once the wire 21 is properly positioned in its respective wire groove 31, the metal conductor 210 of the wire 21 is properly aligned with the terminal tail 110 to allow the conductor 210 to be soldered to the tail 110.

FIGS. 4 through 6 show an alternate form of the electric cable connector according to the present invention. One notable difference is that the connector shown in Figures 4-6 include more than one row of terminals 110. The housing 10 is molded from an electrically insulative plastic or the like, and includes a plurality of terminal receiving passageways 12, which holds the terminals 11 respectively, keeping the tail 110 of each of the terminals 11 extended out of the rear side of the housing 10 for soldering to the wires 21 of the cable 2. The housing also includes one or more cavities 14.

The wire management member 3 in this embodiment is a body portion including a stepped structure comprising two platforms 34 and 35 disposed at different elevations. The upper platform 34 has a grooved topside. The lower platform 35 has grooved top and bottom sides. Therefore, the wire management member 3 has three grooved faces. One common end of the platforms 34 and 35 is provided with terminal slots 36 for receiving the terminals 11. Terminal grooves 30 are respectively provided at the platforms 34 and 35 and extended to the terminal slots 36 for the positioning of the tail 110 of each of the terminals 11. The platforms 34 and 35 may be separately made, and then fastened together.

Alternatively, the platforms 34 and 35 can be formed integral with each other. The terminal grooves 30 have a substantially U-shaped cross section. Wire grooves 31 are respectively provided at the platforms 34 and 35 in line with the terminal grooves 30 for receiving the wires 21 of the cable 2. Ribs 33 are provided at the platforms 34 and 35 to separate the terminal grooves 30 from one another and to prohibit migration of solder paste from one terminal groove 30 to another.

VI. ISSUES ON APPEAL

This issue on appeal is whether independent claims 1, 9, 15 and 21, and dependent claims 2-8, 10-14, 17-20 and 22 are rendered obvious under 35 U.S.C. § 103(a) by United States Patent No. 6,039,611 (“Yang”) in view of Japanese Publication No. 06-231836 (“Yoshihito et al.”).

VII. GROUPING OF CLAIMS

In rejecting the claims, the Examiner has grouped the rejected claims in a single group. Claim 1 would be representative of the rejected claims.

VIII. ARGUMENT

1. Claims On Appeal

All of the claims involved in this Appeal were finally rejected in the Official Action of June 26, 2003 because the Examiner maintained that claims 1-15 and 17-22 were rendered obvious under 35 U.S.C. § 103(a) as being unpatentable over United States Patent No. 6,039,611 (“Yang”) in view of Japanese Publication No. 06-231836 (“Yoshihito et al.”). It is the final rejection of those claims that resulted in the filing of this Appeal.

The claims on appeal are set forth in Appendix A. These claims recite various embodiments of a wire management member, a connector using a wire management member or a cable assembly including a connector using a wire management member. The claim

indicated to be representative of the claims on appeal, *i.e.*, claim 1, recites an electrical connector for use with an electrical cable having a plurality of wires. The electrical connector comprises a connector body and a wire management member. The connector body comprises a front side, a rear side, a cavity between the front side and the rear side, a plurality of terminal passageways, and a plurality of terminals respectively received within the terminal passageways. The terminals each have a tail extending out of the rear side of the connector body. The wire management includes a body portion having an end face, and the body portion adapted to support the tail of each of the terminals. The wire management member comprises a projection rod projecting from the end face of the body portion, the projection rod being received within the connector body cavity.

2. The Cited Reference

The Examiner relied on two references in rejecting the appealed claims: United States Patent No. 6,039,611 (“Yang”) and Japanese Publication No. 06-231836 (“Yoshihito et al.”).

A. United States Patent No. 6,039,611 (“Yang”):

Yang discloses an electrical connector. The connector includes a plastic body 1, an insertion body 2, two covers 3, a steel case 4 and two interconnecting cables 7. The body 1 includes an upper and lower row of terminals 11 projected from a front surface of the body, and two rearward extended side walls 12 that extend from a rear end of the body 1. Each side wall 12 includes a guide rail 13 on an inner surface of the side wall. The guide rail 13 is further formed at a suitable position with a retaining hole 14. Two vertically extending insertion slots 15 are provided at inner surfaces of the two side walls 12.

The insertion body 2 includes two protrusions 22 formed at two lateral side surfaces of the insertion body 2 for engaging the retaining holes 14 when the insertion body 2 is assembled to the body 1. The insertion body further includes top and bottom front surfaces

with a plurality of terminals slots 21 corresponding to the terminals 11. When the insertion body 2 is assembled to the rear end of the body 1, rear ends of the terminals 11 are located in their respective corresponding terminal slots 21.

B. Japanese Publication No. 06-231836 ("Yoshihito et al."):

Yoshihito et al. appears to disclose a pair of connectors, one of the connectors 20 including a plurality of terminals 10, and a mating connector 40, the mating connector being used to mate a flat flexible cable to the connector 20.

3. The Rejection Under 35 U.S.C. § 103(a)
Of Claims 1-15 and 17-22 Should Be Reversed

In the final Official Action of October 10, 2001, the Examiner asserted that claims 1-11 were rendered obvious under 35 U.S.C. § 103(a) as being unpatentable over United States Patent No. 6,162,099 ("Wu") in view of United States Patent No. 5,984,696 ("Lee"). In so rejecting the appealed claims under 35 U.S.C. § 103(a), the Examiner has apparently misunderstood the invention recited in claim 1 of the present application, as well as the teachings of Wu and Lee, as neither of those references, either alone or combined as suggested by the Examiner, disclose, teach or suggest the subject matter recited in claims 1-11 of the present application. Accordingly, claims 1-11 define a frame connector (and a connector system) that is not disclosed in or suggested by the combination of references suggested by the Examiner in the final rejection, and the Board should reverse the Examiner's 35 U.S.C. 103(a) rejection.

Representative claim 1 recites an electrical connector for use with an electrical cable having a plurality of wires. The electrical connector comprises a connector body and a wire management member. The connector body comprises a front side, a rear side, a cavity between the front side and the rear side, a plurality of terminal passageways, and a plurality of terminals respectively received within the terminal passageways. The terminals each have a

tail extending out of the rear side of the connector body. The wire management includes a body portion having an end face, and the body portion adapted to support the tail of each of the terminals. The wire management member comprises a projection rod projecting from the end face of the body portion, the projection rod being received within the connector body cavity.

In rejecting representative claim 1, the Examiner concedes that Yang does not disclose a cavity in the connector body between a front side and a rear side of the connector body, nor does Yang disclose tails of the terminals extending out of the rear side of the connector body. In order to overcome the shortcomings of Yang, the Examiner directs the applicant to Yoshihito et al., and asserts that the shortcomings of Yang are overcome by the teachings of Yoshihito et al. This is not so.

Despite characterizations to the contrary, Yoshihito et al. does not overcome the shortcomings of Yang. Rather, Yoshihito et al. appears to disclose a pair of connectors, one of the connectors 20 including a plurality of terminals 10, and a mating connector 40, the mating connector being used to mate a flat flexible cable to the connector 20. The mating connector 40 is received within a mating opening in the front face of the connector 20. Thus, Yoshihito et al. has the following failings. First, Yoshihito et al. does not disclose a connector having terminal tails extending out of the rear side of the connector body. Rather, the terminals 10 appear to be of a length shorter than the front to rear length of connector 20. Moreover, even if one were to assume that the tails of terminals 10 extend beyond the rear side of the connector 20, there is not a wire management member that includes a body portion adapted to support the tails of the terminals 10. Rather, what the Examiner has characterized as the wire management member is 41, and that structure mates with the mating opening in the front face of connector 20, and not the rear end of the connector 20. Therefore, even if one were to combine the Yang and Yoshihito et al. references as suggested by the Examiner,

the suggested combination fails to establish a *prima facie* case of obviousness as to representative claim 1. Accordingly, for at least the above reasons, the Examiner erred in rejecting claims 1-15 and 17-22 under 35 U.S.C. § 103(a) as being unpatentable over Yang in view of Yoshihito et al.

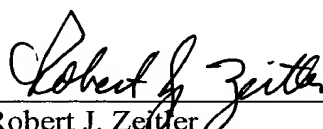
IX. CONCLUSION

For the above reasons, it is respectfully submitted that the appealed claims do define an electrical connector (or a wire management member or a cable assembly) that is not disclosed in or suggested by the relied upon references, whether taken alone or combined as suggested by the Examiner. Accordingly, it is respectfully submitted that the Examiner's rejection of the claims on appeal should not be sustained and therefore should be reversed.

Respectfully submitted,
MOLEX INCORPORATED

Date: September 11, 2003

By: _____


Robert J. Zeller
Registration No. 37,973
Attorney of Record

Mailing Address:
MOLEX INCORPORATED
2222 Wellington Court
Lisle, Illinois 60532
Tel.: (630) 527-4884
Fax.: (630) 416-4962

**IN UNITED STATES PATENT AND TRADEMARK OFFICE
BEFORE THE BOARD OF PATENT APPEALS AND INTERFERENCES**

Applicants: Chun-Hsiang Chiang

Application: WIRE MANAGEMENT MEMBER AND ELECTRIC CABLE
CONNECTOR WITH WIRE MANAGEMENT MEMBER

Serial No.: 09/960,172

Filing Date: September 21, 2001

Art Unit: 2833

Examiner: Edwin A. Leon

Case: A1-082 US

APPENDIX A

1. An electrical connector for use with an electrical cable having a plurality of wires, the electrical connector comprising:

a connector body, the connector body comprising a front side, a rear side, a cavity between said front side and said rear side, a plurality of terminal passageways, and a plurality of terminals respectively received within the terminal passageways, the terminals each having a tail extended out of said rear side of the connector body; and

a wire management member, the wire management including a body portion having an end face, said body portion adapted to support the tail of each of the terminals, the wire management member comprising a projection rod projecting from said end face of the body portion, the projection rod being received within the connector body cavity.

2. The electrical connector of claim 1 wherein the wire management member body portion includes a plurality of terminal grooves, the terminal grooves being adapted to receive the tail of each of the terminals.

3. The electrical connector of claim 1 wherein the wire management member body portion includes a plurality of wire grooves, the wire grooves adapted to receive the wires of the cable for enabling the wires of the cable to be respectively electrically soldered to the tail of each of the terminals.

4. The electrical connector of claim 1 wherein the cavity is contiguous with one of the plurality of terminal passageways.
5. The electrical connector of claim 2 wherein the wire management member comprises a plurality of ribs respectively disposed between two adjacent terminal grooves above the elevation of the tail of the terminals.
6. The electrical connector of claim 1 wherein the wire management member body portion comprises a plurality of platforms, at least one of the platforms comprising a plurality of terminal grooves adapted to receive the tail of each of the terminals.
7. The electrical connector of claim 6 wherein at least one of the platforms comprises a plurality of wire grooves adapted to receive the wires of the cable.
8. The electrical connector of claim 6 wherein at least one of the platforms includes a plurality of ribs respectively disposed between two adjacent terminal grooves above the elevation of the tail of the terminals.
9. A cable assembly, the assembly comprising:
 - a connector body, the connector body comprising a front side, a rear side, a cavity between said front side and said rear side, a plurality of terminal slots, and a plurality of terminals respectively mounted in the terminal slots, the terminals each having a tail extended out of said rear side of the connector body;
 - a cable, the cable comprising a plurality of wires respectively electrically soldered to the tail of each of the terminals; and
 - a wire management member, the wire management member having an end face and being adapted to support the tail of each of the terminals, the wire management member comprising a projection rod projecting from said end face of the wire management member, the projection rod being received within the connector body cavity.
10. The cable assembly of claim 9 wherein the wire management member includes a

plurality of terminal grooves, the terminal grooves being adapted to receive the tail of each of the terminals, and wherein a plurality of ribs are respectively disposed between two adjacent terminal grooves above the elevation of the tail of the terminals.

11. The cable assembly of claim 9 wherein the wire management member includes a plurality of wire grooves, the wire grooves adapted to receive the wires of the cable for enabling the wires of the cable to be respectively electrically soldered to the tail of each of the terminals.

12. The cable assembly of claim 9 wherein the wire management member comprises a plurality of platforms, each of the platforms comprising a plurality of terminal grooves adapted to receive the tail of each of the terminals.

13. The cable assembly of claim 12 wherein at least one of the platforms comprises a plurality of wire grooves adapted to receive the wires of the cable.

14. The cable assembly of claim 12 wherein at least one of the platforms includes a plurality of ribs respectively disposed between two adjacent terminal grooves above the elevation of the tail of the terminals.

15. A wire management member for use with an electrical connector having a connector body, the connector body comprising a front side, a rear side, a cavity between said front side and said rear side, a plurality of terminal slots, and a plurality of terminals respectively mounted in the terminal slots, the terminals each having a tail extended out of said rear side of the connector body, the wire management member comprising:

a body portion, the body portion having an end face, said body portion including a plurality of terminal grooves, the terminal grooves being adapted to receive the tail of each of the terminals; and

a projection rod, the projection rod projecting from said end face of the body portion, the projection rod being adapted to be received within the connector body cavity.

17. The wire management member of claim 15 wherein the body portion includes a plurality of wire grooves, the wire grooves adapted to receive wires of a cable for enabling the

wires of the cable to be respectively electrically soldered to the tail of each of the terminals.

18. The wire management member of claim 15 wherein the wire management member comprises a plurality of ribs respectively disposed between two adjacent terminal grooves above the elevation of the tail of the terminals.

19. The wire management member of claim 15 wherein the body portion comprises a plurality of platforms, at least one of the platforms comprising a plurality of terminal grooves adapted to receive the tail of each of the terminals.

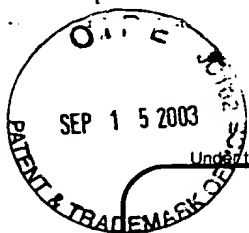
20. The wire management member of claim 19 wherein at least one of the platforms comprises a plurality of wire grooves adapted to receive wires of a cable.

21. An electrical connector for use with an electrical cable having a plurality of wires, the electrical connector comprising:

a connector body, the connector body comprising a front side, a rear side, a cavity between said front side and said rear side, a plurality of terminal passageways, and a plurality of terminals respectively received within the terminal passageways, the terminals each having a tail extended out of said rear side of the connector body; and

a wire management member, the wire management member including a body portion having an end face, said body portion adapted to support the tail of each of the terminals and at least one wire groove for receiving at least one of the plurality of wires, the wire management member comprising a projection rod projecting from said end face of the body portion, the projection rod being received within the connector body cavity.

22. An electrical connector as defined in claim 1, wherein the cavity is provided below the plurality of terminal passageways.



AF/2800
#

PTO/SB/214(03/03)

Approved for use through 04/30/2003. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

TRANSMITTAL FORM <small>(to be used for all correspondence after initial filing)</small>	Application Number	09/960,172	
	Filing Date	09/21/2001	
	First Named Inventor	Chun-Hsiang Chiang	
	Art Unit	2833	
	Examiner Name	E. Leon	
Total Number of Pages in This Submission	44	Attorney Docket Number	A1-082 US

ENCLOSURES (Check all that apply)		
<input checked="" type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance Communication to a Technology Center (TC)
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment/Reply	<input type="checkbox"/> Petition	<input checked="" type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Power of Attorney, Revocation	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Change of Correspondence Address	<input type="checkbox"/> Other Enclosure(s) (please identify below):
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Terminal Disclaimer	
<input type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> Request for Refund	
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> CD, Number of CD(s) _____	
<input type="checkbox"/> Response to Missing Parts/Incomplete Application	Remarks Appeal Brief for Applicants	
<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual	Robert J. Zeitler
Signature	<i>Robert J. Zeitler</i>
Date	09/11/2003

CERTIFICATE OF TRANSMISSION/MAILING	
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, Washington, DC 20231 on this date: 09/11/2003	
Typed or printed	Kerri Richardson
Signature	<i>Kerri Richardson</i>
Date	09/11/2003

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

RECEIVED
SEP 23 2003
TECHNOLOGY CENTER 2800

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

FEE TRANSMITTAL
for FY 2002

SEP 15 2003

Patent fees are subject to annual revision.

Complete if Known

Application Number	09/960,172
Filing Date	09/21/2001
First Named Inventor	Chun-Hsiang Chiang
Examiner Name	E. Leon
Group Art Unit	2833
Attorney Docket No.	A1-052

TOTAL AMOUNT OF PAYMENT (\$) 320.00

METHOD OF PAYMENT

- 1.
- ☒
- The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:

Deposit Account Number	50-1873
Deposit Account Name	Molex Incorporated

- ☒
- Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17

☐ Applicant claims small entity status. See 37 CFR 1.27

- 2.
- ☐
- Payment Enclosed:

☐ Check ☐ Credit card ☐ Money Order ☐ Other**FEE CALCULATION****1. BASIC FILING FEE**

Large Entity Code (\$)	Small Entity Code (\$)	Fee Description	Fee Paid
101 740	201 370	Utility filing fee	
106 330	206 165	Design filing fee	
107 510	207 255	Plant filing fee	
108 740	208 370	Reissue filing fee	
114 160	214 80	Provisional filing fee	

SUBTOTAL (1) (\$)

2. EXTRA CLAIM FEES

Total Claims	Extra Claims	Fee from below	Fee Paid
Independent Claims	-20** =	X	
Multiple Dependent	-3** =	X	

Large Entity Code (\$)	Small Entity Code (\$)	Fee Description
103 18	203 9	Claims in excess of 20
102 84	202 42	Independent claims in excess of 3
104 280	204 140	Multiple dependent claim, if not paid
109 84	209 42	** Reissue independent claims over original patent
110 18	210 9	** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$)

**or number previously paid, if greater; For Reissues, see above

FEE CALCULATION (continued)**3. ADDITIONAL FEES**

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
105 130	205 65	Surcharge - late filing fee or oath	
127 50	227 25	Surcharge - late provisional filing fee or cover sheet	
139 130	139 130	Non-English specification	
147 2,520	147 2,520	For filing a request for <i>ex parte</i> reexamination	
112 920*	112 920*	Requesting publication of SIR prior to Examiner action	
113 1,840*	113 1,840*	Requesting publication of SIR after Examiner action	
115 110	215 55	Extension for reply within first month	
116 400	216 200	Extension for reply within second month	
117 920	217 460	Extension for reply within third month	
118 1,440	218 720	Extension for reply within fourth month	
128 1,960	228 980	Extension for reply within fifth month	
119 320	219 160	Notice of Appeal	
120 320	220 160	Filing a brief in support of an appeal	320.00
121 280	221 140	Request for oral hearing	
138 1,510	138 1,510	Petition to institute a public use proceeding	
140 110	240 55	Petition to revive - unavoidable	
141 1,280	241 640	Petition to revive - unintentional	
142 1,280	242 640	Utility issue fee (or reissue)	
143 460	243 230	Design issue fee	
144 620	244 310	Plant issue fee	
122 130	122 130	Petitions to the Commissioner	
123 50	123 50	Processing fee under 37 CFR 1.17(d)	
126 180	126 180	Submission of Information Disclosure Statement	
581 40	581 40	Recording each patent assignment per property (times number of properties)	
146 740	246 370	Filing a submission after final rejection (37 CFR § 1.129(a))	
149 740	249 370	For each additional invention to be examined (37 CFR § 1.129(b))	
179 740	279 370	Request for Continued Examination (RCE)	
169 900	169 900	Request for expedited examination of a design application	

Other fee (specify) _____

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$) 320.00

SUBMITTED BY**Complete (if applicable)**

Name (Print/Type)	Robert J. Zeitler	Registration No. (Attorney/Agent)	37,973	Telephone	630/527-4884
Signature	<i>Robert J. Zeitler</i>	Date	09/11/2003		

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.